

PHN 17,814

ABSTRACT- OF THE DISCLOSURE

A sound reproduction system ~~comprises~~ includes headphones (11). ~~Said~~ The headphones comprise means include structures for generating sound (4, 5) and microphones (6, 7) ~~(i.e. means for recording sound)~~. Further, the system ~~comprises~~ includes filter means filters (8,9) ~~to filter~~ for filtering a signal such that the sound produced simulates external sound sources. The system ~~comprises~~ includes a feed-back and control system (10) in which a signals  $(r_1(k), r_r(k))$  from the microphones (6, 7) ~~is~~ are used to set the settings  $W_{XL}(k)$ ,  $W_{XR}(k)$  of the ~~filter means~~ filters (8,9).

Fig. 2

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